LENL SEECHICVLIO

DKAWINGS ATTACHED

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Electric Rotary Rheostat COMPLETE SPECIFICATION

Figure 2 shows a cross-section through the

tion through the annular body, but with the Figure 3, like Figure 2, shows a cross-secannular body on the line A-A in Figure 1,

Figures 2 and 3 — but after the application Figure 4 shows a cross-section - as in wire winding applied:

enlarged, has in reality an external diameter ceramic material, which is illustrated greatly An annular body 1, preferably consisting of terminal of the rheostat. of the connecting strip leading to the external

strips leading to the outer terminals of the ro- 65 ceramic rings, and to secure the wires or metal the ends of the wire winding to such small realize how difficult it is to satisfactorily secure dimensions must be kept in mind in order to mm and a radial thickness of 1.2 mm. These 60 of less than 10mm, a ring height of about 2

has two bores 2 in which metal pins 3 are that the annular shape is not completely closed, The ceramic body I, which has a gap so tary rheostat.

to an outer terminal of the rheostat not illus-Figures 3 and 4. A metal strip 5, which leads over the metal pins 3, as can be seen from A winding 4 of resistance wire is now wound inserted and riveted, one at each side of the 70

It is thus possible to fix the end of the windelectrical contact is made to it. winding 4 is likewise welded and satisfactory In the course of this, the intervening resistance pin 3 by means of spot-welding connection 6. trated, is now welded to the associated metal

to the outer terminal of the rotary rheostat. nection to the connecting conductor 5 leading 85 carry out, and to establish the electrical conangle pot-welding operation, which is easy to ing to a rivered metal pin 3 by mans of a

fixed in the body in the vicinity of the end winding is secured between an insert member a resistance winding, wherein each end of the nular body of insulating material which carries I. An electric rotary rheostat having an an-WHAT WE CLAIM 1S:-

> by the following statement:performed, to be particularly described in and to us, and the method by which it is to be which we pray that a patent may be granted Corporate, do hereby declare the invention for Selb/Bayern, West Germany, a German Body We, Rosenthal-Isolatoren G.m.B.H. of

> Wire-wound rotary rheostats normally have which carries a resistance winding. state which have a body of insulating material, The invention relates to electric rotary theo-

> bearing for the latter. resistance winding, a rotatable slider and a of ceramic, as a supporting member for the an annular body of insulating material, usually

great difficulties arise in securing the ends of as is necessary for many circuits, then very If the rotary rheostat has to be very small

of the rheostat. The running of the slider necting wires leading to the outer terminals chanically and connected electrically to conthe winding.

The ends should be satisfactorily fixed me-

metal member, by a welded connection cinity of the end of the winding and another an insert member fixed in the body in the viwhich carries a resistance winding, wherein each of the winding is secured between having an annular body of insulating material problem is solved by an electric rotary rheostat According to the present invention, this should not be adversely effected.

mounted in radial bores in the annular body, insert members are metal pins, which are According to a preferred embodiment, the 32 ing is electrically connected thereby.

between the two members, to which the wind-

a connecting strip which leads to the associated The outer metal members may each form preferably being riveted therein.

illustrated in the accompanying drawings, A preferred embodiment of the invention is external terminal of the rheostat.

annular body, Figure 1 shows, in perspective, the unwound

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claim of which the annular body has an exter- 15 claim of which the annular body has an exter- 15 nal diameter of less than 10mm, a height of approximately 2.0mm and a radial thickness of approximately 1.2mm.

6. An electric rotary rheostat substantially 6. An electric rotary rheostat substantially as described with reference to and as illus- 20

trated in the accompanying drawings.
For the Applicants
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of the winding and another metal members, by a welded connection between the two members, to which the winding is electrically connected thereby

thereby.

2. A theorrat as claimed in claim I wherein the insert members are metal pins mounted in radial bores in the annular body.

3. A theorrat as claimed in claim 2 wherein

said pins are riveted in the bores.

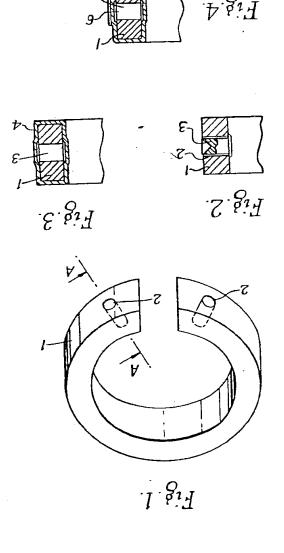
4. A rheostat as claimed in any preceding claim wherein the other metal member is an electrical connecting strip leading to an external terminal of the rheostat.

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COMPLETE SPECIFICATION

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